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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,489	01/27/2004	Heinrich-Martin Boehm	056228.53101US	6272
23911	7590 11/18/2004		EXAMINER ·	
CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP			WILLIAMS, HOWARD L	
P.O. BOX 14		•	ART UNIT	PAPER NUMBER
WASHINGT	ON, DC 20044-4300		2819	

DATE MAILED: 11/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/764,489	BOEHM, HEINRICH-MARTIN			
Office Action Summary	Examiner	Art Unit			
	Howard L. Williams	2819			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ti ly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron e, cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
2a) This action is FINAL . 2b) ☐ This	s action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 and 6 is/are rejected. 7) ☐ Claim(s) 5 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 04 August 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	a) accepted or b) objected or b) objected or an accepted or abeyance. Section is required if the drawing(s) is ob	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	_				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>012704</u>. 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:				

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Your Reference: 056228.53101US

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The examiner acknowledges receipt of the information disclosure statement filed 27 January 2004. An initialed copy of the citation form should accompany this letter.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the reference pulse from the burst fed to the comparator such that <u>based on the reference pulse</u>, in the comparator, a signal value is processed must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Regarding claim 3 and the drawings, no path from the input to the reference terminal of the comparator is illustrated. Only the output of the DAC is shown as supplying the reference terminal of the comparator. Claim 3 seems to suggest that there is some path which has not been illustrated exists so that the signal may be processed "based on the reference pulse"

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement

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Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of

the drawing figures. If the changes are not accepted by the examiner, the applicant will

be notified and informed of any required corrective action in the next Office action. The

objection to the drawings will not be held in abeyance. The following is a quotation of the

appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this

section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

Claims 1-4 and 6 rejected under 35 U.S.C. 102(b) as anticipated by Veerhoek et

al. (US 507841 A). Veerhoek et al. discloses is figure 1 a comparator 11, an electronic

component 1 to generate the desired digital signal using an iterative fashion using a

balancing process producing a defined number of bits that defines the upper and lower

thresholds. The successively defined desired digital signal is fed to the DAC 7 to

provide an analog signal to the comparator as the reference signal such that based on

the reference signal the signal is processed.

Claim 5 is objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 5515050 A Luedtke

US 6351231 B1 Price et al.

US 6380881 B2 Harada et al.

US 6608582 B2 Casper et al.

US 20010038352 A1 Bardelli et al.

US 4831382 A Debus, Jr et al.

US 4768109 A Matsuo

Each of the first five patents above are specifically directed towards analog-to-digital converters using an iterative process. The last patent to Matsuo is directed to video signal processing and includes sampling of the input signal.

Any inquiry concerning this communication should be directed to Howard L. Williams at telephone number 571.272.1815. The Patent and Trademark Office has a new central facsimile number for application specific correspondence intended for entry, it is 703-872-9306.

11/12/04 Voice 571.272.1815 Howard L. Williams Primary Examiner Art Unit 2819

Award LWilliams

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